

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/653,294DATE: 04/16/97
TIME: 09:54:02
4/27/97

INPUT SET: S17024.raw

This Raw Listing contains the General
Information Section and up to the first 5 pages.

1 SEQUENCE LISTING
23 (1) General Information:
45 (i) APPLICANT: CLAYBERGER, CAROL
6 KRENSKI, ALAN
7 BUELOW, ROLAND
89 (ii) TITLE OF INVENTION: IMMUNOMODULATING DIMERS
1011 (iii) NUMBER OF SEQUENCES: 37
1213 (iv) CORRESPONDENCE ADDRESS:
14 (A) ADDRESSEE: MORRISON & FOERSTER
15 (B) STREET: 2000 PENNSYLVANIA AVENUE, NW
16 (C) CITY: WASHINGTON
17 (D) STATE: DC
18 (E) COUNTRY: USA
19 (F) ZIP: 20006-1888
2021 (v) COMPUTER READABLE FORM:
22 (A) MEDIUM TYPE: Floppy disk
23 (B) COMPUTER: IBM PC compatible
24 (C) OPERATING SYSTEM: PC-DOS/MS-DOS
25 (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
2627 (vi) CURRENT APPLICATION DATA:
28 (A) APPLICATION NUMBER: US 08/653,294
29 (B) FILING DATE: 24-MAY-1996
30 (C) CLASSIFICATION:
3132 (viii) ATTORNEY/AGENT INFORMATION:
33 (A) NAME: MILLMAN, ROBERT A.
34 (B) REGISTRATION NUMBER: 36,217
35 (C) REFERENCE/DOCKET NUMBER: 28600-20200.23
3637 (ix) TELECOMMUNICATION INFORMATION:
38 (A) TELEPHONE: (202) 887-1500
39 (B) TELEFAX: (202) 822-0168
40 (C) TELEX: 90-4030 MRSNFOERSWSH
4142 (2) INFORMATION FOR SEQ ID NO:1:
4344 (i) SEQUENCE CHARACTERISTICS:
45 (A) LENGTH: 10 amino acids
46

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47 (B) TYPE: amino acid
48 (C) STRANDEDNESS: single
49 (D) TOPOLOGY: linear
50
51
52
53 (ix) FEATURE:
54 (A) NAME/KEY: Modified-site
55 (B) LOCATION: 2
56 (D) OTHER INFORMATION: /label= aa76
57 /note= "Glutamic acid (E) or valine (V)"
58
59 (ix) FEATURE:
60 (A) NAME/KEY: Modified-site
61 (B) LOCATION: 3
62 (D) OTHER INFORMATION: /label= aa77
63 /note= "Aspartic acid (D), serine (S) or asparagine (N)"
64
65 (ix) FEATURE:
66 (A) NAME/KEY: Modified-site
67 (B) LOCATION: 5
68 (D) OTHER INFORMATION: /label= aa79
69 /note= "Arginine (R) or glycine (G)"
70
71 (ix) FEATURE:
72 (A) NAME/KEY: Modified-site
73 (B) LOCATION: 6
74 (D) OTHER INFORMATION: /label= aa80
75 /note= "isoleucine (I) or asparagine (N)"
76
77 (ix) FEATURE:
78 (A) NAME/KEY: Modified-site
79 (B) LOCATION: 7
80 (D) OTHER INFORMATION: /label= aa81
81 /note= "a hydrophobic or small amino acid"
82
83 (ix) FEATURE:
84 (A) NAME/KEY: Modified-site
85 (B) LOCATION: 8
86 (D) OTHER INFORMATION: /label= aa82
87 /note= "arginine (R) or leucine (L)"
88
89 (ix) FEATURE:
90 (A) NAME/KEY: Modified-site
91 (B) LOCATION: 9
92 (D) OTHER INFORMATION: /label= aa83
93 /note= "glycine (G) or arginine (R)"
94
95 (ix) FEATURE:
96 (A) NAME/KEY: Modified-site
97 (B) LOCATION: 10
98 (D) OTHER INFORMATION: /label= aa84
99 /note= "a hydrophobic or small amino acid"

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100
101
102
103 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
104
105 Arg Xaa Xaa Leu Xaa Xaa Xaa Xaa Xaa Xaa
106 1 5 10
107
108 (2) INFORMATION FOR SEQ ID NO:2:
109
110 (i) SEQUENCE CHARACTERISTICS:
111 (A) LENGTH: 10 amino acids
112 (B) TYPE: amino acid
113 (C) STRANDEDNESS: single
114 (D) TOPOLOGY: linear
115
116
117
118 (ix) FEATURE:
119 (A) NAME/KEY: Modified-site
120 (B) LOCATION: 9
121 (D) OTHER INFORMATION: /label= aa76
122 /note= "Glutamic acid (E) or valine (V)"
123
124 (ix) FEATURE:
125 (A) NAME/KEY: Modified-site
126 (B) LOCATION: 8
127 (D) OTHER INFORMATION: /label= aa77
128 /note= "Aspartic acid (D), serine (S) or asparagine (N)"
129
130 (ix) FEATURE:
131 (A) NAME/KEY: Modified-site
132 (B) LOCATION: 6
133 (D) OTHER INFORMATION: /label= aa79
134 /note= "Arginine (R) or glycine (G)"
135
136 (ix) FEATURE:
137 (A) NAME/KEY: Modified-site
138 (B) LOCATION: 5
139 (D) OTHER INFORMATION: /label= aa80
140 /note= "isoleucine (I) or asparagine (N)"
141
142 (ix) FEATURE:
143 (A) NAME/KEY: Modified-site
144 (B) LOCATION: 4
145 (D) OTHER INFORMATION: /label= aa81
146 /note= "a hydrophobic or small amino acid"
147
148 (ix) FEATURE:
149 (A) NAME/KEY: Modified-site
150 • (B) LOCATION: 3
151 (D) OTHER INFORMATION: /label= aa82
152 /note= "arginine (R) or leucine (L)"

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153
154 (ix) FEATURE:
155 (A) NAME/KEY: Modified-site
156 (B) LOCATION: 2
157 (D) OTHER INFORMATION: /label= aa83
158 /note= "glycine (G) or arginine (R)"
159
160 (ix) FEATURE:
161 (A) NAME/KEY: Modified-site
162 (B) LOCATION: 1
163 (D) OTHER INFORMATION: /label= aa84
164 /note= "a hydrophobic or small amino acid"
165
166
167
168 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:
169
170 Xaa Xaa Xaa Xaa Xaa Xaa Leu Xaa Xaa Arg
171 1 5 10
172
173 (2) INFORMATION FOR SEQ ID NO:3:
174
175 (i) SEQUENCE CHARACTERISTICS:
176 (A) LENGTH: 10 amino acids
177 (B) TYPE: amino acid
178 (C) STRANDEDNESS: single
179 (D) TOPOLOGY: linear
180
181
182
183 (ix) FEATURE:
184 (A) NAME/KEY: Modified-site
185 (B) LOCATION: 3
186 (D) OTHER INFORMATION: /label= X1
187 /note= "any amino acid, polar or non-polar, preferably polar,
188 either charged or uncharged"
189
190 (ix) FEATURE:
191 (A) NAME/KEY: Modified-site
192 (B) LOCATION: 6
193 (D) OTHER INFORMATION: /label= X2
194 /note= "preferably an amino acid of at least 5 carbon atoms,
195 which may be polar or non-polar, particularly asparagine and
196 isoleucine"
197
198 (ix) FEATURE:
199 (A) NAME/KEY: Modified-site
200 (B) LOCATION: 7
201 (D) OTHER INFORMATION: /label= X3
202 /note= "non-polar aliphatic amino acid from 2 to 6 carbon atoms,
203 especially isoleucine"
204
205 (ix) FEATURE:

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206 (A) NAME/KEY: Modified-site
207 (B) LOCATION: 8
208 (D) OTHER INFORMATION: /label= X4
209 /note= "any amino acid, particularly aliphatic, either charged
210 or uncharged, preferably at least about 5 carbon atoms, such as
211 arginine and leucine"
212
213 (ix) FEATURE:
214 (A) NAME/KEY: Modified-site
215 (B) LOCATION: 9
216 (D) OTHER INFORMATION: /label= X5
217 /note= "any amino acid, preferably aliphatic, charged or
218 uncharged, polar or non-polar, particularly glycine and
219 arginine"
220
221 (ix) FEATURE:
222 (A) NAME/KEY: Modified-site
223 (B) LOCATION: group(8, 9)
224 (D) OTHER INFORMATION: /note= "X4 or X5 is arginine"
225
226 (ix) FEATURE:
227 (A) NAME/KEY: Modified-site
228 (B) LOCATION: 10
229 (D) OTHER INFORMATION: /label= X6
230 /note= "any amino acid, preferably hydrophobic and small"
231
232 (ix) FEATURE:
233 (A) NAME/KEY: Modified-site
234 (B) LOCATION: group(3, 6, 7, 8, 9, 10)
235 (D) OTHER INFORMATION: /note= "Preferably, X1-X6 will be
236 S,N,L,R,G,Y or N,I,L,R,Y or D,I,L,L,R,Y, respectively, where one
237 amino acid in a group may be substituted at the same site for
238 the amino acid in another group"
239
240
241 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:
242
243 Arg Glu Xaa Leu Arg Xaa Xaa Xaa Xaa
244 1 5 10
245
246 (2) INFORMATION FOR SEQ ID NO:4:
247
248 (i) SEQUENCE CHARACTERISTICS:
249 (A) LENGTH: 6 amino acids
250 (B) TYPE: amino acid
251 (C) STRANDEDNESS: single
252 (D) TOPOLOGY: linear
253
254
255
256
257
258 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

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SEQUENCE VERIFICATION REPORT
PATENT APPLICATION **US/08/653,294**

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Original Text